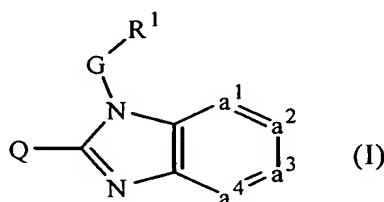


This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. *(previously presented)* A compound of formula

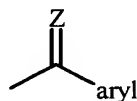


a prodrug, addition salt, or stereochemically isomeric form thereof wherein

$-a^1=a^2-a^3=a^4-$  represents a bivalent radical of formula

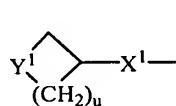
- $-N=CH-CH=CH-$  (a-2);  
 $-CH=N-CH=CH-$  (a-3);  
 $-CH=CH-N=CH-$  (a-4); or  
 $-CH=CH-CH=N-$  (a-5);

wherein each hydrogen atom in the radicals (a-2), (a-3), (a-4) and (a-5) may optionally be replaced by halo, C<sub>1-6</sub>alkyl, nitro, amino, hydroxy, C<sub>1-6</sub>alkyloxy, polyhaloC<sub>1-6</sub>alkyl, carboxyl, aminoC<sub>1-6</sub>alkyl, mono- or di(C<sub>1-4</sub>alkyl)aminoC<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkyloxycarbonyl, hydroxyC<sub>1-6</sub>alkyl, or a radical of formula

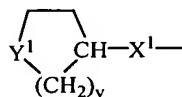


wherein Z is O, CH-C(=O)-NR<sup>5a</sup>R<sup>5b</sup>, CH<sub>2</sub>, CH-C<sub>1-6</sub>alkyl, N-OH or N-O-C<sub>1-6</sub>alkyl;

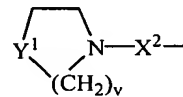
Q is a radical of formula



(b-4)



(b-5)



(b-6)

wherein

$Y^1$  is a bivalent radical of formula  $-NR^2-$  or  $-CH(NR^2R^4)-$ ;

$X^1$  is  $NR^4$ , S,  $S(=O)$ ,  $S(=O)_2$ , O,  $CH_2$ ,  $C(=O)$ ,  $C(=CH_2)$ ,  $CH(OH)$ ,  $CH(CH_3)$ ,  $CH(OCH_3)$ ,  $CH(SCH_3)$ ,  $CH(NR^{5a}R^{5b})$ ,  $CH_2-NR^4$  or  $NR^4-CH_2$ ;

$X^2$  is a direct bond,  $CH_2$ ,  $C(=O)$ ,  $NR^4$ ,  $C_{1-4}alkyl-NR^4$ ,  $NR^4-C_{1-4}alkyl$ ;

u is 2 or 3;

v is 2; and

whereby each hydrogen atom in the carbocycles and the heterocycles defined in radicals (b-4), (b-5), and (b-6) may optionally be replaced by  $R^3$ ; with the proviso that when  $R^3$  is hydroxy or  $C_{1-6}alkyloxy$ , then  $R^3$  can not replace a hydrogen atom in the  $\alpha$  position relative to a nitrogen atom;

G is  $C_{1-10}alkanediyl$  substituted with one or more hydroxy,  $C_{1-6}alkyloxy$ , aryl $C_{1-6}alkyloxy$ ,  $C_{1-6}alkylthio$ , aryl $C_{1-6}alkylthio$ ,  $HO(-CH_2-CH_2-O)_n-$ ,  $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n-$  or aryl $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n-$ ;

$R^1$  is a monocyclic heterocycle or aryl; said heterocycle being selected from piperidinyl, piperazinyl, pyridyl, pyrazinyl, pyridazinyl, pyrimidinyl, furanyl, tetrahydrofuranyl, thienyl, pyrrolyl, thiazolyl, oxazolyl, imidazolyl, isothiazolyl, pyrazolyl, isoxazolyl, oxadiazolyl; and each heterocycle may optionally be substituted with 1 or where possible more substituents selected from halo, hydroxy, amino, cyano, carboxy,  $C_{1-6}alkyl$ ,  $C_{1-6}alkyloxy$ ,  $C_{1-6}alkylthio$ ,  $C_{1-6}alkyloxyC_{1-6}alkyl$ , aryl, aryl $C_{1-6}alkyl$ , aryl $C_{1-6}alkyloxy$ , hydroxy $C_{1-6}alkyl$ , mono- or di( $C_{1-6}alkyl$ )amino, mono- or di( $C_{1-6}alkyl$ )amino $C_{1-6}alkyl$ , polyhalo $C_{1-6}alkyl$ ,  $C_{1-6}alkylcarbonylamino$ ,  $C_{1-6}alkyl-SO_2-NR^{5c}-$ , aryl- $SO_2-NR^{5c}-$ ,  $C_{1-6}alkyloxycarbonyl$ ,  $-C(=O)-NR^{5c}R^{5d}$ ,  $HO(-CH_2-CH_2-O)_n-$ , halo( $-CH_2-CH_2-O)_n-$ ,  $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n-$ , aryl $C_{1-6}alkyloxy(-CH_2-CH_2-O)_n-$  and mono- or di( $C_{1-6}alkyl$ )amino( $-CH_2-CH_2-O)_n$ ;

each n independently is 1, 2, 3 or 4;

$R^2$  is hydrogen, formyl,  $C_{1-6}alkylcarbonyl$ , Hetcarbonyl, pyrrolidinyl, piperidinyl, homopiperidinyl,  $C_{3-7}cycloalkyl$  substituted with  $N(R^6)_2$ , or  $C_{1-10}alkyl$  substituted with  $N(R^6)_2$  and optionally with a second, third or fourth substituent

selected from amino, hydroxy, C<sub>3-7</sub>cycloalkyl, C<sub>2-5</sub>alkanediyl, piperidinyl, mono-or di(C<sub>1-6</sub>alkyl)amino, C<sub>1-6</sub>alkyloxycarbonylamino, aryl and aryloxy;

R<sup>3</sup> is hydrogen, hydroxy, C<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkyloxy, arylC<sub>1-6</sub>alkyl or arylC<sub>1-6</sub>alkyloxy;

R<sup>4</sup> is hydrogen, C<sub>1-6</sub>alkyl or arylC<sub>1-6</sub>alkyl;

R<sup>5a</sup>, R<sup>5b</sup>, R<sup>5c</sup> and R<sup>5d</sup> each independently are hydrogen or C<sub>1-6</sub>alkyl; or

R<sup>5a</sup> and R<sup>5b</sup>, or R<sup>5c</sup> and R<sup>5d</sup> taken together form a bivalent radical of formula -(CH<sub>2</sub>)<sub>s</sub>- wherein s is 4 or 5;

R<sup>6</sup> is hydrogen, C<sub>1-4</sub>alkyl, formyl, hydroxyC<sub>1-6</sub>alkyl, C<sub>1-6</sub>alkylcarbonyl or C<sub>1-6</sub>alkyloxycarbonyl;

aryl is phenyl or phenyl substituted with 1 or more-substituents selected from halo, hydroxy, C<sub>1-6</sub>alkyl, hydroxyC<sub>1-6</sub>alkyl, polyhaloC<sub>1-6</sub>alkyl, and C<sub>1-6</sub>alkyloxy; and

Het is pyridyl, pyrimidinyl, pyrazinyl, or pyridazinyl.

2. *(currently amended)* A compound according to claim 1, wherein -a<sup>1</sup>=a<sup>2</sup>-a<sup>3</sup>=a<sup>4</sup>- is a radical of formula (a-2).
3. *(previously presented)* A compound according to claim 1, wherein R<sup>1</sup> is phenyl optionally substituted with halo, C<sub>1-6</sub>alkyl or C<sub>1-4</sub>alkyloxy; or pyridyl optionally substituted with 1 or more substituents selected from arylC<sub>1-6</sub>alkyloxy, C<sub>1-6</sub>alkyloxyC<sub>1-6</sub>alkyl, aryl, mono-or di(C<sub>1-6</sub>alkyl)amino, C(=O)-NR<sup>5c</sup>R<sup>5d</sup>, halo or C<sub>1-6</sub>alkyl.
4. *(previously presented)* A compound according to claim 1, wherein G is C<sub>1-4</sub>alkanediyl substituted with hydroxy, C<sub>1-6</sub>alkyloxy, HO(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>-, C<sub>1-6</sub>alkyloxy(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>- or arylC<sub>1-6</sub>alkyloxy(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>n</sub>-.
5. *(previously presented)* A compound according to claim 1, wherein Q is a radical of formula (b-5) wherein v is 2 and Y<sup>1</sup> is -NR<sup>2</sup>-.

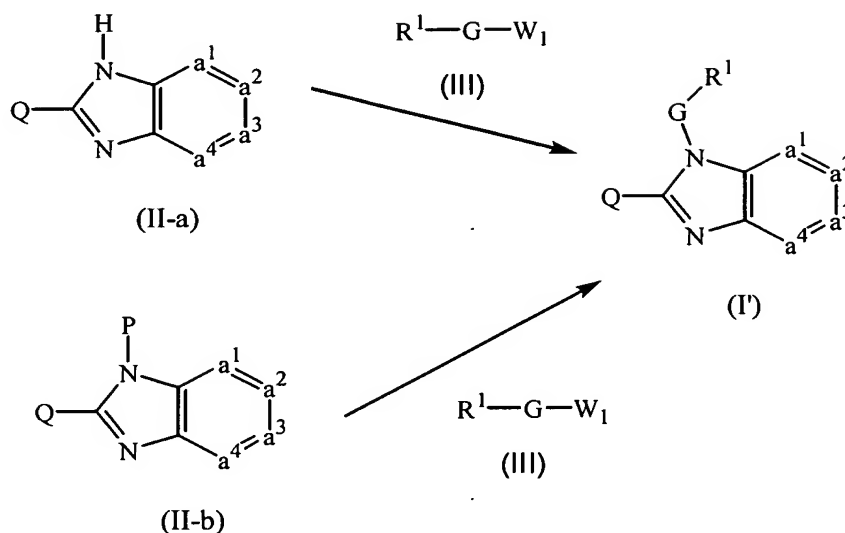
**DOCKET NO.:** JANS-0042 (JAB-1499 US DIV)  
**Application No.:** 10/817,472  
**Office Action Dated:** November 4, 2005

**PATENT**

6. *(previously presented)* A compound according to claim 1, wherein X<sup>1</sup> is NH or CH<sub>2</sub>.
7. *(previously presented)* A compound according to claim 1, wherein R<sup>2</sup> is hydrogen or C<sub>1-10</sub>alkyl substituted with NHR<sup>6</sup> wherein R<sup>6</sup> is hydrogen or C<sub>1-6</sub>alkyloxycarbonyl.
8. *(cancelled)*
9. *(previously presented)* A method of treating a respiratory syncytial viral infection, comprising the step of administering a therapeutically effective amount of a compound as claimed in any one of claims 1 to 7.
10. *(previously presented)* A pharmaceutical composition, comprising a pharmaceutically acceptable carrier, and as active ingredient a therapeutically effective amount of a compound as claimed in any one of claims 1 to 7.
11. *(previously presented)* A process of preparing a composition as claimed in claim 10, comprising the step of intimately mixing said carrier with said compound.

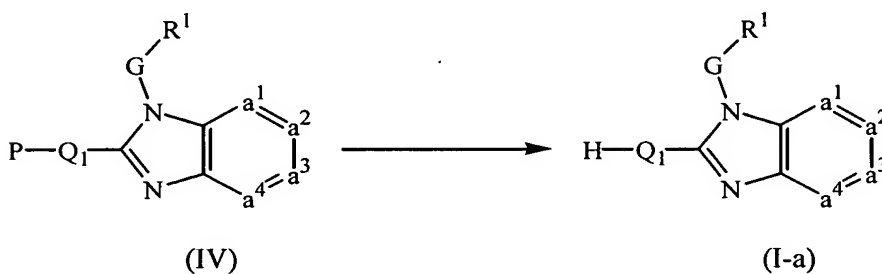
Claims 12 to 14 *(cancelled)*

15. *(previously presented)* A process of preparing a compound as claimed in claim 1, comprising at least one step selected from the group consisting of:
- a) reacting an intermediate of formula (II-a) or (II-b) with an intermediate of formula (III)



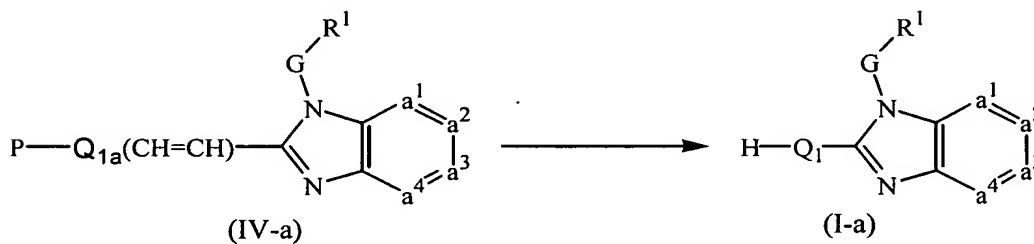
with R<sup>1</sup>, G, Q and -a<sup>1</sup>=a<sup>2</sup>-a<sup>3</sup>=a<sup>4</sup>- defined as in claim 1, and W<sub>1</sub> being a leaving group, in the presence of a base and in a reaction-inert solvent;

b) deprotecting an intermediate of formula (IV)



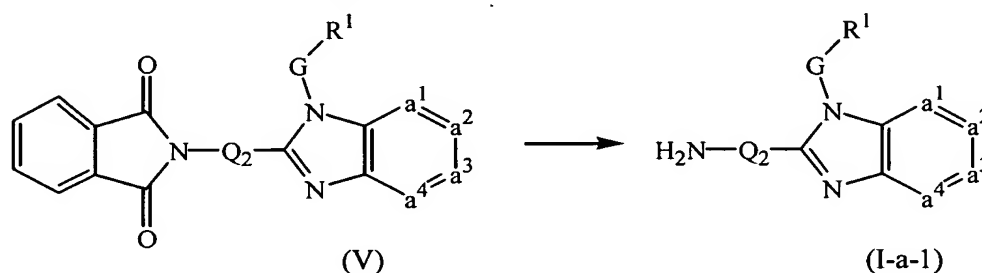
with R<sup>1</sup>, G, and -a<sup>1</sup>=a<sup>2</sup>-a<sup>3</sup>=a<sup>4</sup>- defined as in claim 1, H-Q<sub>1</sub> being defined as Q according to claim 1 provided that R<sup>2</sup> or at least one R<sup>6</sup> substituent is hydrogen, and P being a protective group;

c) deprotecting and reducing an intermediate of formula (IV-a)



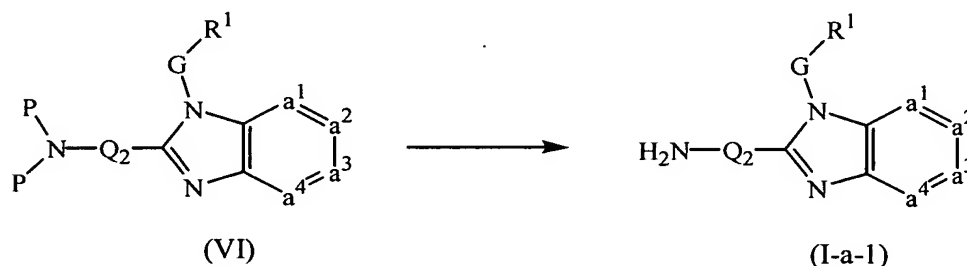
with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H-Q_1$  being defined as Q according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is hydrogen,  $Q_{1a}(CH=CH)$  being defined as  $Q_1$  provided that  $Q_1$  comprises an unsaturated bond, and P being a protective group;

- d) deprotecting an intermediate of formula (V)



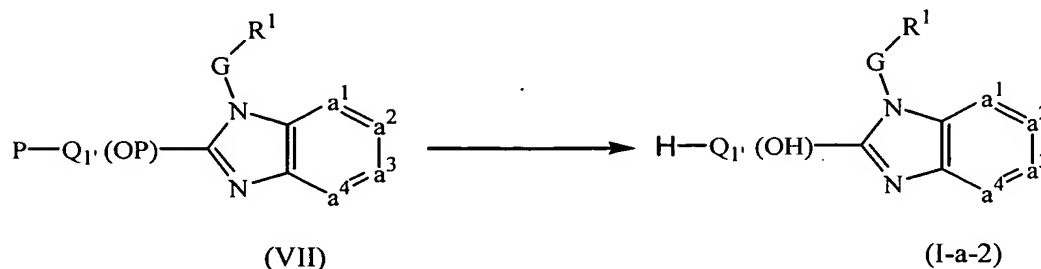
with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-Q_2$  being defined as Q according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen;

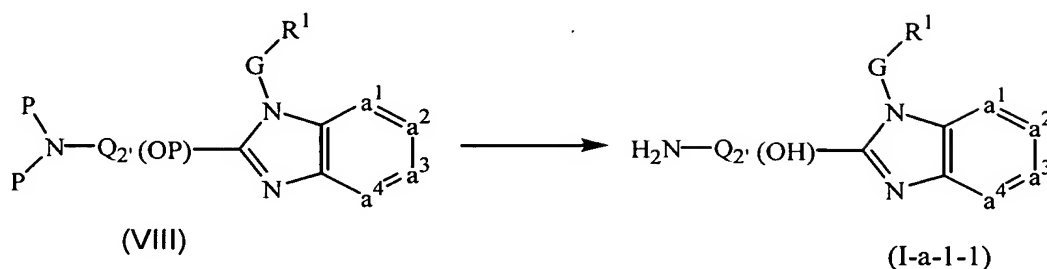
- e) deprotecting an intermediate of formula (VI)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-Q_2$  being defined as Q according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen, and P being a protective group;

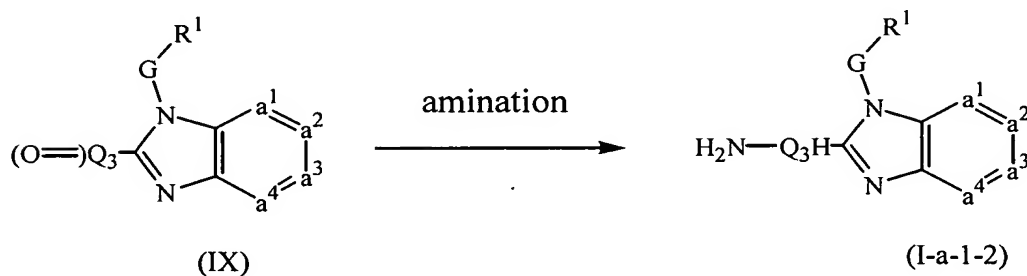
- f) deprotecting an intermediate of formula (VII) or (VIII)





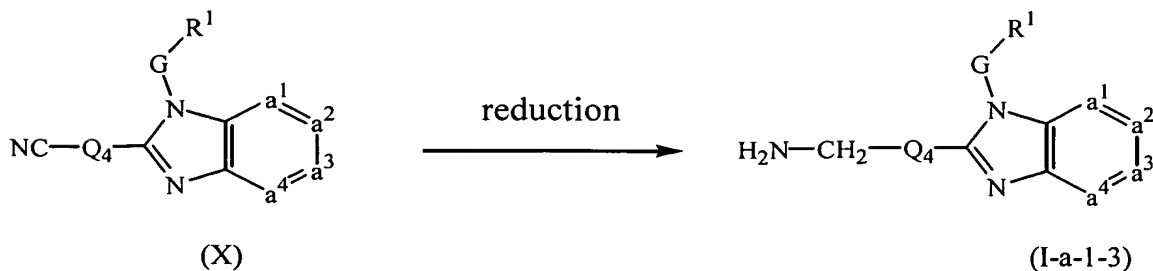
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H-Q_1'(OH)$  being defined as  $Q$  according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is hydrogen and provided that  $Q$  comprises a hydroxy moiety,  $H_2N-Q_2'(OH)$  being defined as  $Q$  according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen and provided that  $Q$  comprises a hydroxy moiety, and  $P$  being a protective group;

- g) amination of an intermediate of formula (IX)



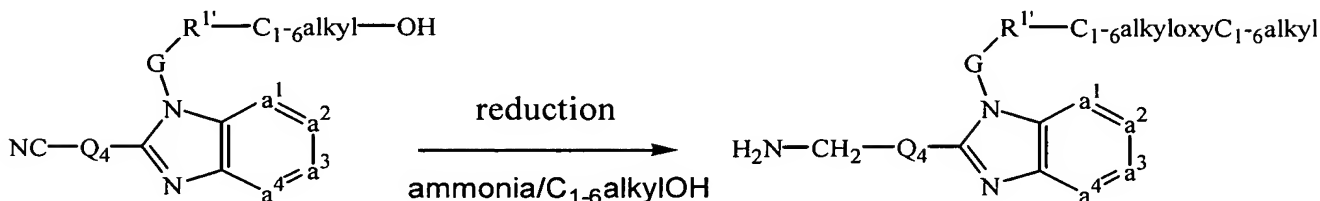
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-Q_3H$  being defined as  $Q$  according to claim 1 provided that both  $R^6$  substituents are hydrogen or  $R^2$  and  $R^4$  are both hydrogen, and the carbon adjacent to the nitrogen carrying the  $R^6$ , or  $R^2$  and  $R^4$  substituents contains at least one hydrogen, in the presence of an amination reagent;

- h) reducing an intermediate of formula (X)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-CH_2-Q_4$  being defined as Q according to claim 1 provided that Q comprises a  $-CH_2-NH_2$  moiety, in the presence of a reducing agent;

- i) reducing an intermediate of formula (X-a)

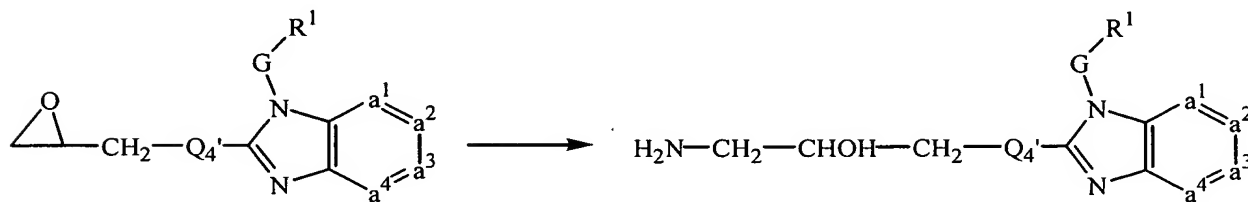


(X-a)

(I-a-1-3-1)

with G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1,  $H_2N-CH_2-Q_4$  being defined as Q according to claim 1 provided that Q comprises a  $-CH_2-NH_2$  moiety, and  $R^1$  being defined as  $R^1$  according to claim 1 provided that it comprises at least one substituent, in the presence of a reducing agent and solvent;

- j) amination of an intermediate of formula (XI)



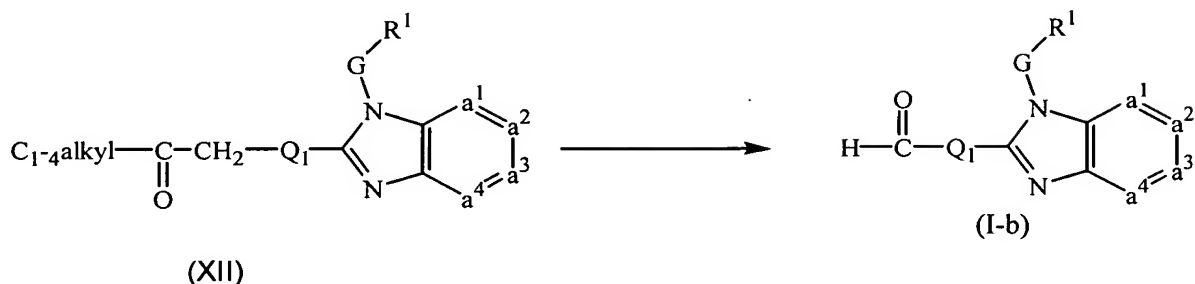
(XI)

(I-a-1-3-2)

with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H_2N-CH_2-CHOH-CH_2-Q_4$  being defined as Q according to claim 1 provided that Q comprises a  $CH_2-CHOH-CH_2-NH_2$  moiety, in the presence of an amination reagent;

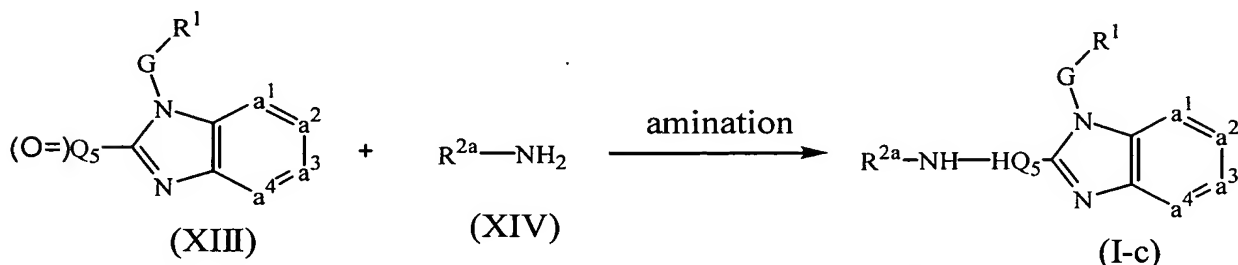
- k) reacting an intermediate of formula (XII) with formic acid, formamide and ammonia





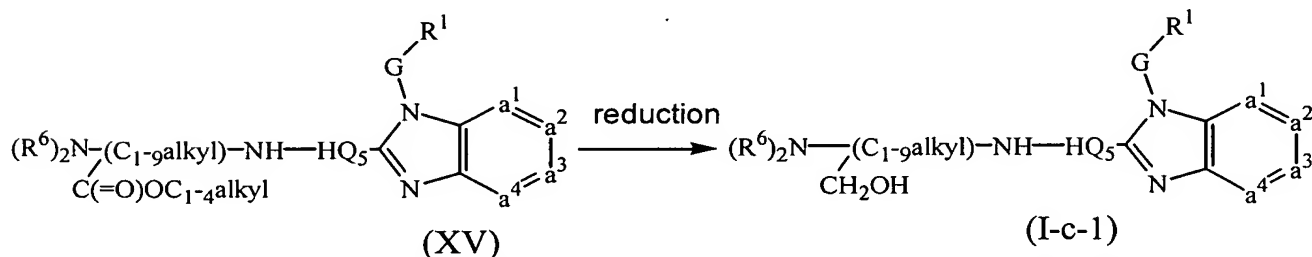
with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-C(=O)-Q_1$  being defined as Q according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is formyl;

- l) amination of an intermediate of formula (XIII) by reaction with an intermediate of formula (XIV)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $R^{2a}-NH-HQ_5$  being defined as Q according to claim 1 provided that  $R^2$  is other than hydrogen and is represented by  $R^{2a}$ ,  $R^4$  is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the  $R^2$  and  $R^4$  substituents, carries also at least one hydrogen atom, in the presence of a reducing agent;

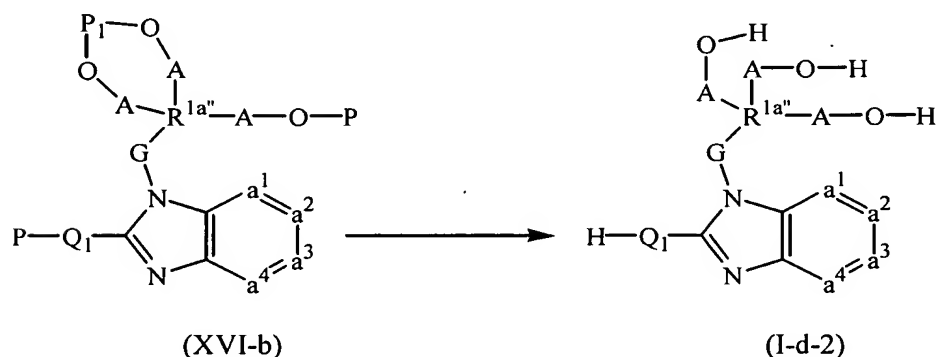
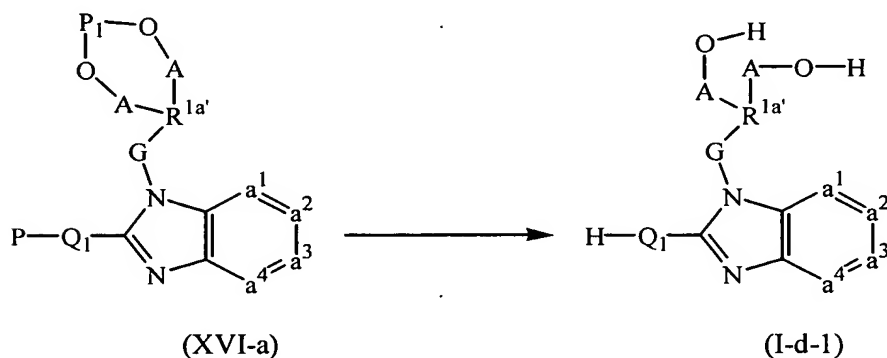
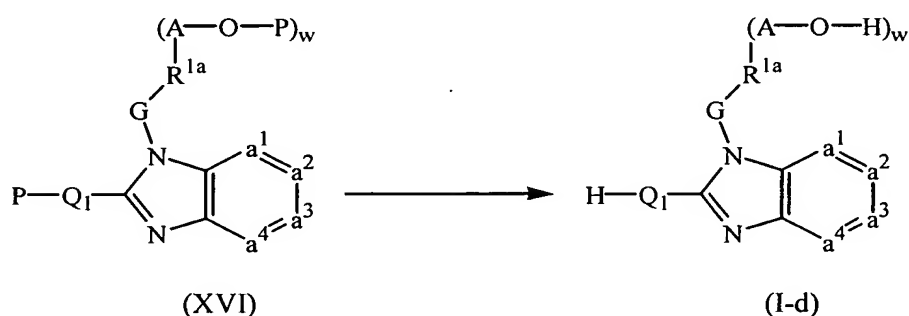
- m) reducing an intermediate of formula (XV)



with  $R^1$ , G, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $(R^6)_2N-[(C_{1-9}alkyl)CH_2OH]-NH-HQ_5$  being defined as Q according to claim 1 provided

that  $R^2$  is other than hydrogen and is represented by  $C_{1-10}$ alkyl substituted with  $N(R_6)_2$  and with hydroxy, and the carbon atom carrying the hydroxy, carries also two hydrogen atoms, and provided that  $R^4$  is hydrogen, and the carbon atom adjacent to the nitrogen atom carrying the  $R^2$  and  $R^4$  substituents, carries also at least one hydrogen atom, with a reducing agent;

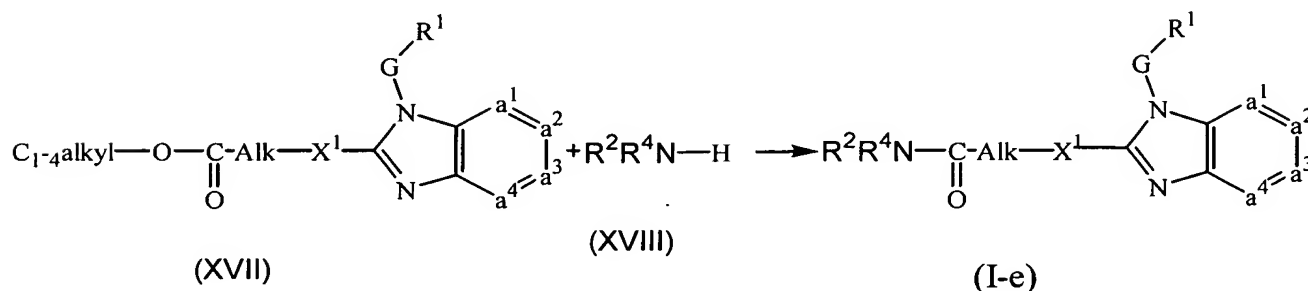
n) deprotecting an intermediate of formula (XVI), (XVI-a) or (XVI-b)



with  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-Q_1$  being defined as  $Q$  according to claim 1 provided that  $R^2$  or at least one  $R^6$  substituent is

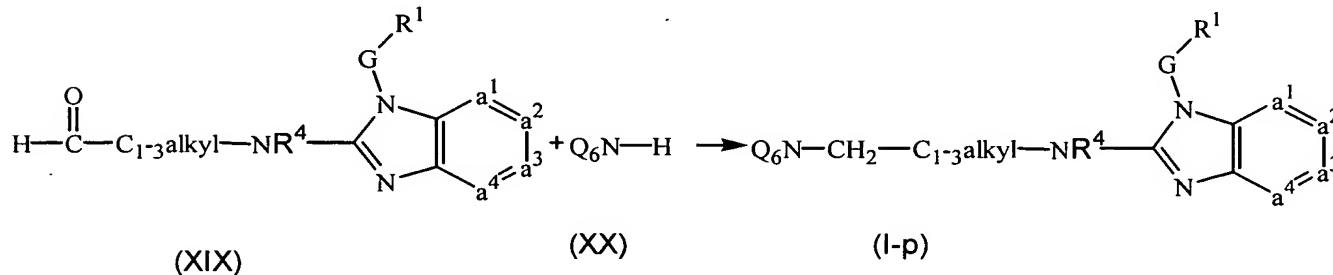
hydrogen, and  $R^{1a}-(A-O-H)_w$ ,  $R^{1a'}-(A-O-H)_2$  and  $R^{1a''}-(A-O-H)_3$  being defined as  $R^1$  according to claim 1 provided that  $R^1$  is substituted with hydroxy, hydroxy $C_{1-6}$ alkyl, or  $HO(-CH_2-CH_2-O)_n-$ , with  $w$  being an integer from 1 to 4 and  $P$  or  $P_1$  being a protecting group, with an acid;

- o) amination of an intermediate of formula (XVII)



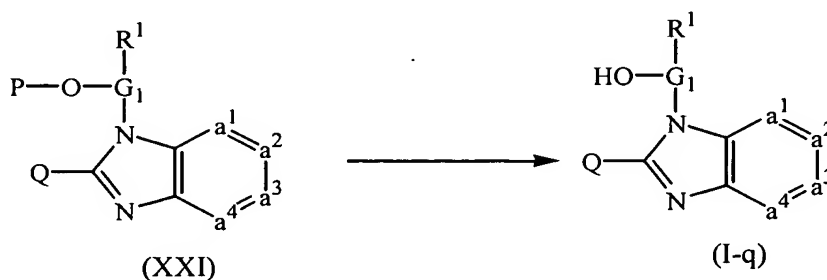
with  $R^1$ ,  $G$ ,  $-a^1=a^2-a^3=a^4-$ ,  $\text{Alk}$ ,  $X^1$ ,  $R^2$  and  $R^4$  defined as in claim 1, in the presence of an amination agent;

- p) amination of an intermediate of formula (XIX)



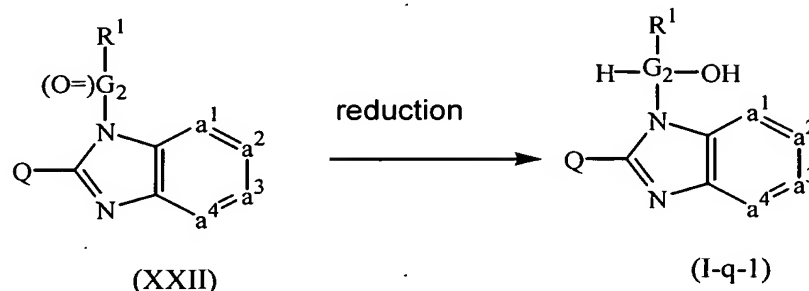
with  $R^1$ ,  $G$ , and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $Q_6N-CH_2-C_{1-3}\text{alkyl}-NR^4$  being defined as  $Q$  according to claim 1 provided that in the definition of  $Q$ ,  $X^2$  is  $C_{2-4}\text{alkyl}-NR^4$ , in the presence of an amination agent;

- q) deprotecting an intermediate of formula (XXI)



with  $R^1$ , Q, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $HO-G_1$  being defined as G according to claim 1 provided that G is substituted with hydroxy or  $HO-(CH_2CH_2O)_n$ ; and

- r) reducing an intermediate of formula (XXII)



with  $R^1$ , Q, and  $-a^1=a^2-a^3=a^4-$  defined as in claim 1, and  $H-G_2-OH$  being defined as G according to claim 1 provided that G is substituted with hydroxy and the carbon atom carrying the hydroxy substituent carries also at least one hydrogen, in the presence of a reducing agent.

Claims 16 to 17 (*cancelled*)

18. (*previously presented*) The process of claim 15, further comprising the step of converting compound of formula (I'), stereochemically isomeric forms, metal complexes, quaternary amines or *N*-oxide forms thereof, into a therapeutically active non-toxic acid addition salt by treatment with an acid.

19. (*previously presented*) The process of claim 15, further comprising the step of converting compound of formula (I'), stereochemically isomeric forms, metal complexes, quaternary amines or *N*-oxide forms thereof, into a therapeutically active non-toxic base addition salt by treatment with alkali.

20. *(previously presented)* The process of claim 15, further comprising the step of converting the acid addition salt form of compound of formula (I') or stereochemically isomeric forms, thereof, into the free base by treatment with alkali.
21. *(previously presented)* The process of claim 15, further comprising the step of converting the base addition salt form of compound of formula (I') or stereochemically isomeric forms, thereof, into the free acid by treatment with acid.
22. *(previously presented)* The process of claim 15, further comprising the step of converting said compound of formula (I') or stereochemically isomeric form, into a different form of compound of formula (I'), stereochemically isomeric form, metal complex, quaternary amine or *N*-oxide form thereof.
23. *(new)* A compound according to claim 1, wherein said compound is *N*-[1-(2-amino-3-methylbutyl)-4-piperidinyl]-3-[(2-methoxyethoxy)(6-methyl-2-pyridinyl)methyl]-7-methyl-3*H*-imidazo[4,5-*b*]pyridin-2-amine.
24. *(new)* A compound according to claim 1, wherein said compound is 1-phenyl-2-[2-(piperidin-4-ylamino)-imidazo[4,5-*b*]pyridin-3-yl]-ethanol.
25. *(new)* A compound according to claim 1, wherein said compound is 1-Phenyl-2-(2-piperidin-4-ylmethyl-imidazo[4,5-*b*]pyridin-3-yl)-ethanol.